

**AMENDMENTS**  
**In the Claims**

**Current Status of Claims**

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121.(canceled)  
122.(canceled)

1 123.(currently amended) A cross-laminate comprising:

2 a first coextruded film A having a film A main direction of uniaxial or unbalanced biaxial  
3 molecular orientation and including:

4 a continuous main layer comprising a first polymer material selected to have a high  
5 tensile strength,

6 a continuous bonding layer comprising a second polymer material and disposed on  
7 a first surface of the main layer, and

8 a plurality of arrays of substantially parallel film A first strands coextruded on a top  
9 surface of the bonding layer in a spaced apart configuration, and comprising a third  
10 polymer material different from the first and second polymer materials ~~and~~  
11 ~~comprising a polymer consisting essentially of a copolymer of ethylene having a~~  
12 ~~melting point or a melting range within the temperature range of 50 - 100°C or a~~  
13 ~~blend of such copolymer and LLDPE containing at least 25% of the copolymer,~~  
14 where a separation between adjacent arrays of film A first strands is ~~no more than~~  
15 is between 2mm and 8 cm measured from a middle of one ~~strand~~ array to a middle  
16 of an adjacent ~~strand~~ array,

17 a second coextruded film B having a film B main direction of uniaxial or unbalanced biaxial  
18 molecular orientation and including:

19 a continuous main layer comprising a fourth polymer material selected to have a high  
20 tensile strength,

21 a continuous bonding layer comprising a fifth polymer material and disposed on a  
22 first surface of the main layer, and

23 a plurality of arrays of substantially parallel film B first strands coextruded on a top

1 surface of the bonding layer in a spaced apart configuration, and comprising a sixth  
2 polymer material different from the fourth and fifth polymer materials, where a  
3 separation between adjacent arrays of film B first strands is ~~no more than~~ between 2  
4 mm and 8 cm measured from a middle of one ~~strand~~ array to a middle of an adjacent  
5 strand array,  
6 where the film A and the film B are arranged such that the first surface of the film A faces  
7 the first surface of the film B and their bonding layers and arrays of strands on the first  
8 surfaces face each other and such that the film B main direction crosses the film A main  
9 direction and the arrays of the film B first strands cross the arrays of the film A first strands,  
10 a first bonding pattern formed between the first surface of the film A and the first surface of  
11 the film B comprising:  
12 \_\_\_\_\_ first bonds comprising spot-bonds formed directly ~~points of intersection~~ between the  
13 film A first strands and the film B first strands, where the film A first strands intersect the  
14 film B first strands,  
15 \_\_\_\_\_ second bonds comprising contact lines between the film A bonding layer and the film  
16 B first strands or the film B bonding layer and the film A first strands, and  
17 \_\_\_\_\_ third bonds comprising contact regions between the film A bonding layer and the film  
18 B bonding layer, where the regions are devoid of the film A first strands and the film B first  
19 strands,  
20 \_\_\_\_\_ where the first bonds have a higher bond strength than a bond strength of the third  
21 bonds, and  
22 where the strands have a thickness of no more than 30% of a thickness of their respective  
23 films at their thickest, ~~and~~  
24 \_\_\_\_\_ ~~where the strands comprise coextruded thin lines.~~

1 124.**(previously presented)** The cross-laminate according to claim 123, further comprising:  
2 an exterior layer formed on an exterior surface of at least the film B comprising an exterior  
3 layer polymer material adapted to enhance a surface property of the laminate, where the property is  
4 selected from the group consisting of its heat-sealing capability and its frictional property.

1 125.**(previously presented)** The cross-laminate according to claim 123, wherein the second bonds  
2 have a bond strength greater than the bond strength of the third bonds.

126.**(canceled)**

127.**(canceled)**

1 128.**(previously presented)** The cross-laminate according to claim 123, wherein a collective area

1 of the film A first strands and the film B first strands comprises no more than 60% of a surface area  
2 of their respective film sides.

1 129.**(previously presented)** The cross-laminate according to claim 123, wherein a thickness  
2 increase of the films A and B at their respective strand locations is at most 20% of a film thickness  
3 of the films A and B in adjacent regions of the films A and B devoid of their respective strands.

1 130.**(previously presented)** The cross-laminate according to claim 123, wherein a thickness  
2 increase of the films A and B at their respective strand locations is at most 10% of a film thickness  
3 of the films A and B in adjacent regions of the films A and B devoid of their respective strands.

1 131.**(previously presented)** The cross-laminate according to claim 123, wherein a volume of the  
2 film A strands and the film B strands is not greater than 15% of a volume of their respective films.

1 132.**(previously presented)** The cross-laminate according to claim 123, wherein a volume of the  
2 film A strands and the film B strands is not greater than 10% of a volume of their respective films.

1 133.**(previously presented)** The cross-laminate according to claim 123, wherein a volume of the  
2 film A strands and the film B strands is not greater than 5% of a volume of their respective films.

1 134.**(currently amended)** The cross-laminate according to claim 123, wherein the separation  
2 ~~between first strands on films A and B is between 2 mm and 40 mm measured from a middle of one~~  
3 ~~strand to a middle of an adjacent strand.~~

1 135.**(currently amended)** The cross-laminate according to claim 123, wherein the separation  
2 ~~between first strands on films A and B is at the highest 20 mm measured from a middle of one strand~~  
3 ~~to a middle of an adjacent strand.~~

1 136.**(previously presented)** The cross-laminate according to claim 123, wherein:  
2 the bond strength of the first bonds is at least 40 g cm<sup>-1</sup>, as measured by a peel test carried  
3 out on narrow specimens of the cross-laminate at a velocity of about 1 mm sec<sup>-1</sup>, and  
4 the bond strength of the third bonds are less than or equal to 75% of the bond strength of the  
5 first bonds, as measured by the peel test.

1 137.**(previously presented)** The cross-laminate according to claim 136, wherein the bond strength  
2 of the third bonds are less than or equal to 50% of the bond strength of the first bonds, as measured  
3 by the peel test.

1 138.**(previously presented)** The cross-laminate according to claim 123, wherein an average  
2 melting point of the third polymer material and average melting point of the sixth polymer materials  
3 are at least about 10°C lower than an average melting point of the first polymer material and an  
4 average melting point of the fourth polymer material.

1 139.**(previously presented)** The cross-laminate according to claim 123, wherein an average  
2 melting point of the third polymer material and average melting point of the sixth polymer materials  
3 are at least about 15°C lower than an average melting point of the first polymer material and an  
4 average melting point of the fourth polymer material.

1 140.**(previously presented)** The cross-laminate according to claim 123, wherein an average  
2 melting point of the third polymer material and average melting point of the sixth polymer materials  
3 are at least about 20°C lower than an average melting point of the first polymer material and an  
4 average melting point of the fourth polymer material.

1 141.**(previously presented)** The cross-laminate according to claim 123, wherein the main layer of  
2 each of the two films A and B consists essentially of polyethylene or polypropylene.

1 142.**(previously presented)** The cross-laminate according to claim 123, wherein:  
2 the main layers are selected from the group consisting of HDPE, LLDPE or a blend of the  
3 two, and  
4 the bonding layers comprise LLDPE in admixture with 5 - 25% of a copolymer of ethylene  
5 having a melting point or a melting range within the temperature range of 50 - 80°C.

1 143.**(previously presented)** The cross-laminate according to claim 123, wherein the bonding layers  
2 include an adhesion modifying material adapted to establish a blocking of the contacting mutually  
3 facing surfaces of the films A and B to each other in regions devoid the their strands.

1 144.**(previously presented)** The cross-laminate according to claim 123, wherein:  
2 at least one of the films A and B further including a plurality of arrays of substantially  
3 parallel second strands,  
4 where the second strands comprise a polymer material differing in composition, color and/or  
5 appearance from the first strands and  
6 where the arrays of first and second strands on the film A or film B are interspersed.

1 145.**(previously presented)** The cross-laminate according to claim 123, wherein the polymer

1 material of the strands of at least one of the films A and B includes a colored material that makes the  
2 colored strands visible through at least one side of the cross-laminate.

1 146.(**currently amended**) The cross-laminate according to claim 145, wherein the cross-laminate  
2 has a thickness at its ~~thickest~~ highest of about 0.3 mm, and:

3 wherein an exterior surface of the film A is corrugated to form a visible pattern of striations  
4 extending in one direction,

5 where a spacing of the striations being at most about 3 mm,

6 the main layer and the bonding layer of the film A are substantially transparent to enable the  
7 colored strands to be visible when the laminate is observed from one of the exterior surfaces of the  
8 cross-laminate, and

9 a depth of the corrugations is sufficient to impart a three-dimensional effect to the cross-  
10 laminate such that the strands appear to be spaced internally from the exterior surface of the film A  
11 a distance substantially greater than an actual maximum thickness of the film A.

1 147.(**currently amended**) A The cross-laminate according to claim 123, wherein the film A  
2 further includes:

3 a second continuous bonding layer comprising an seventh polymer material and  
4 disposed on a second surface of the main layer, and

5 a plurality of arrays of substantially parallel film A third strands coextruded on a top  
6 surface of the second bonding layer in a spaced apart configuration and comprising  
7 an eighth polymer material different from the first polymer material and seventh  
8 polymer material, and

9 the cross-laminate further comprising:

10 a third film C having a main direction of uniaxial or unbalanced biaxial molecular  
11 orientation and including:

12 a continuous main layer comprising a ninth polymer material having a high  
13 tensile strength,

14 a continuous bonding layer comprising a tenth polymer material and disposed  
15 on a first surface of the main layer, and

16 a plurality of arrays of substantially parallel film C first strands disposed on  
17 a top surface of the bonding layer in a spaced apart configuration and  
18 comprising an eleventh polymer material different from the ninth and tenth  
19 polymer materials,

20 where the film A and the film C are arranged such that ~~their~~ the second surface of the film  
21 A faces the first surface of the film C and the second bonding layers of the film A and the  
22 bonding layer of film C and the arrays of third strands of the film A and the arrays of strands

1 of the film C face each other and such that the film C main direction crosses the film A main  
2 direction and the film C first strands cross the film A third strands,  
3 a second bonding pattern formed between the second surface of the film A and first surface  
4 of the film C comprising:

5 \_\_\_\_\_ fourth bonds comprising spot-bonds formed directly ~~points of intersection~~ between  
6 the film A third strands and the film C first strands, where the film A first strands intersect  
7 the film C first strands,

8 \_\_\_\_\_ fifth bonds comprising contact lines between the film A bonding layer and the film  
9 C first strands or the film C bonding layer and the film A third strands, and

10 \_\_\_\_\_ sixth bonds comprising contact regions between the film A bonding layer and the film  
11 C bonding layer, where the regions are devoid of the film A third strands and the film C first  
12 strands,

13 where the fourth bonds have a higher bond strength than the sixth bonds.

1 148.(**previously presented**) The cross-laminate according to claim 147, further comprising:  
2 an exterior layer formed on an exterior surface of at least the film B or the film C comprising  
3 a polymer material adapted to enhance a surface property of the laminate, where the property is  
4 selected from the group consisting of its heat-sealing capability and its frictional property.

149.(**canceled**)

150.(**canceled**)

151.(**canceled**)